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Malki, H.A.; Misir, D.;

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September 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 3

Full text available: pdf(431.84 KB) Additional Information: full citation, abstract, references, index terms

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

2 Digital control of industrial processes

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3 Analysis, modeling and generation of self-similar VBR video traffic

Mark W. Garrett, Walter Willinger

October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4

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We present a detailed statistical analysis of a 2-hour long empirical sample of VBR video. The sample was obtained by applying a simple intraframe video compression code to an action movie. The main findings of our analysis are (1) the tail behavior of the marginal bandwidth distribution can be accurately described using "heavy-tailed" distributions (e.g., Pareto); (2) the autocorrelation of the VBR video sequence decays hyperbolically (equivalent to long-range dependenc ...

4 Fluid-based analysis of a network of AQM routers supporting TCP flows with an application to RED

Vishal Misra, Wei-Bo Gong, Don Towsley

August 2000 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication, Volume 30 Issue 4

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In this paper we use jump process driven Stochastic Differential Equations to model the interactions of a set of TCP flows and Active Queue Management routers in a network setting. We show how the SDEs can be transformed into a set of Ordinary Differential Equations which can be easily solved numerically. Our solution methodology scales well to a large number of flows. As an application, we model and solve a system where RED is the AQM policy. Our results show excellent agreement with those ...

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August 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 3

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Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the semantic space between traditional strong and optimistic consistency models for replicated services. We argue that an important class of applications can tolerate relaxed consistency, but benefit from bounding the maximum rate of inconsistent access ...

**Keywords**: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

Fast and accurate text classification via multiple linear discriminant projections
Soumen Chakrabarti, Shourya Roy, Mahesh V. Soundalgekar
August 2003 The VLDB Journal — The International Journal on Very Large Data Bases,
Volume 12 Issue 2

Full text available: pdf(456.36 KB) Additional Information: full citation, abstract, index terms

Abstract. Support vector machines (SVMs) have shown superb performance for text classification tasks. They are accurate, robust, and quick to apply to test instances. Their only potential drawback is their training time and memory requirement. For n training instances held in memory, the best-known SVM implementations take time proportional to n , where a is typically between 1.8 and 2.1. SVMs have been trained on data sets with several thousand instances, but Web direct ...

Keywords: Discriminative learning, Linear discriminants, Text classification

Programming languages for computer music synthesis, performance, and composition Gareth Loy, Curtis Abbott



June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Full text available: pdf(3.57 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>



The development of formal, descriptive, and procedural notations has become a practical concern within the field of music now that computers are being applied to musical tasks. Music combines the real-time demands of performance with the intellectual demands of highly developed symbolic systems that are quite different from natural language. The richness and variety of these demands makes the programming language paradigm a natural one in the musical application of computers. This paradigm ...

Razor: A Low-Power Pipeline Based on Circuit-Level Timing Speculation Dan Ernst, Nam Sung Kim, Shidhartha Das, Sanjay Pant, Rajeev Rao, Toan Pham, Conrad Ziesler, David Blaauw, Todd Austin, Krisztian Flautner, Trevor Mudge

December 2003 Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture

Full text available: T pdf(568.17 KB) Publisher Site

Additional Information: full citation, abstract, citings, index terms

With increasing clock frequencies and silicon integration, power aware computing has become a critical concernin the design of embedded processors and systems-on-chip. One of the more effective and widely used methods for power-awarecomputing is dynamic voltage scaling (DVS). In orderto obtain the maximum power savings from DVS, it is essentialto scale the supply voltage as low as possible while ensuring correct operation of the processor. The critical voltage ischosen such that under a worst-case ...

9 Vibration-to-electric energy conversion

Scott Meninger, Jose Oscar Mur-Miranda, Rajeevan Amirtharajah, Anantha Chandrakasan, Jeffrey Lang

August 1999 Proceedings of the 1999 international symposium on Low power electronics and design

Full text available: pdf(952.15 KB) Additional Information: full citation, references, index terms

**Keywords**: MEMS, energy conversion, low-power, self-powered

10 Least-squares policy iteration

Michail G. Lagoudakis, Ronald Parr

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(991.82 KB) Additional Information: full citation, abstract, index terms

We propose a new approach to reinforcement learning for control problems which combines value-function approximation with linear architectures and approximate policy iteration. This new approach is motivated by the least-squares temporal-difference learning algorithm (LSTD) for prediction problems, which is known for its efficient use of sample experiences compared to pure temporal-difference algorithms. Heretofore, LSTD has not had a straightforward application to control problems mainly becaus ...

11 Physical layer driven protocol and algorithm design for energy-efficient wireless sensor networks

Eugene Shih, Seong-Hwan Cho, Nathan Ickes, Rex Min, Amit Sinha, Alice Wang, Anantha Chandrakasan

July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking

Full text available: pdf(782.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

The potential for collaborative, robust networks of microsensors has attracted a great deal of

research attention. For the most part, this is due to the compelling applications that will be enabled once wireless microsensor networks are in place; location-sensing, environmental sensing, medical monitoring and similar applications are all gaining interest. However, wireless microsensor networks pose numerous design challenges. For applications requiring long-term, robust sensing, such as milit ...

# 12 A hop by hop rate-based congestion control scheme

Partho P. Mishra, Hemant Kanakia

October 1992 ACM SIGCOMM Computer Communication Review, Conference proceedings on Communications architectures & protocols, Volume 22 Issue 4

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index terms

The flow/congestion control scheme of TCP is based on the sliding window mechanism. As we demonstrate in this paper, the performance of this and other similar end-to-end flow control schemes deteriorates as networks move to the gigabit range. This has been the motivation for our search for a new flow and congestion control scheme. In this paper, we propose as an alternative, a hop-by-hop rate-based mechanism for congestion control. Due to the increasing sophistication in switch architecture ...

## 13 SEDA: an architecture for well-conditioned, scalable internet services

Matt Welsh, David Culler, Eric Brewer

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: pdf(1.51 MB)

Additional Information: full citation, abstract, references, citings, index

We propose a new design for highly concurrent Internet services, which we call the staged event-driven architecture (SEDA). SEDA is intended to support massive concurrency demands and simplify the construction of well-conditioned services. In SEDA, applications consist of a network of event-driven stages connected by explicit queues. This architecture allows services to be well-conditioned to load, preventing resources from being overcommitted when demand exceeds service cap ...

# 14 Experiments with digital video playback

Richard Gerber, Ladan Gharai

May 1996 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 24 Issue 1

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages. In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: compression type, frame size, digitized rate, spatial quality and keyframe distribution. The tests were carried out ...

15 Broadcast protocols to support efficient retrieval from databases by mobile users Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar March 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(638.48 KB) terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important problem. Such protocols are



employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

16 System architectures for computer music

John W. Gordon

June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Full text available: pdf(4.61 MB)

Additional Information: full citation, abstract, references, index terms, review

Computer music is a relatively new field. While a large proportion of the public is aware of computer music in one form or another, there seems to be a need for a better understanding of its capabilities and limitations in terms of synthesis, performance, and recording hardware. This article addresses that need by surveying and discussing the architecture of existing computer music systems. System requirements vary according to what the system will be used for. Common uses for co ...

17 Congestion control performance of R-DSDV protocol in multihop wireless ad hoc networks

Azzedine Boukerche, Sajal K. Das

May 2003 Wireless Networks, Volume 9 Issue 3

Full text available: pdf(266.53 KB) Additional Information: full citation, abstract, references, index terms

Ad hoc wireless networks are composed of mobile nodes communicating through wireless links, without any fixed backbone infrastructure. Frequent topology changes due to node mobility make routing in such dynamic networks a challenging problem. Moreover, successful message routing implies every mobile node is potentially capable of acting as a router, thus supporting store-and-forward mechanisms. However, resource limitations on these nodes also require a control on congestion due to message forwa ...

Keywords: ad hoc networks, congestion control, performance study, randomization

18 Formal models-2: Tuning before feedback: combining ranking discovery and blind feedback for robust retrieval

Weiguo Fan, Ming Luo, Li Wang, Wensi Xi, Edward A. Fox

July 2004 Proceedings of the 27th annual international conference on Research and development in information retrieval

Full text available: pdf(306.72 KB) Additional Information: full citation, abstract, references, index terms

Both ranking functions and user queries are very important factors affecting a search engine's performance. Prior research has looked at how to improve ad-hoc retrieval performance for existing queries while tuning the ranking function, or modify and expand user queries using a fixed ranking scheme using blind feedback. However, almost no research has looked at how to combine ranking function tuning and blind feedback together to improve ad-hoc retrieval performance. In this paper, we look at th ...

Keywords: blind feedback, genetic programming, information retrieval, intelligent information retrieval, query expansion, ranking function, search engine

System-level power optimization: techniques and tools





Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2

Full text available: pdf(385.22 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

20 Low power RF integrated circuits: principles and practice

A. A. Abidi, H. Darabi

August 1999 Proceedings of the 1999 international symposium on Low power electronics and design

Full text available: pdf(191.14 KB) Additional Information: full citation, references, index terms

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Relevance scale

1 Performance verification and system parameter identification of spacecraft tape recorder control servo



Asok K. Mukhopadhyay

March 1979 Proceedings of the twelfth annual simulation symposium

Full text available: Topdf(996.20 KB) Additional Information: full citation, abstract, references, index terms

NASA's 1976 Viking Mars Orbiters and the Voyager 1977 Jupiter-Saturn flyby spacecrafts carried digital tape recorders (DTR) on board. The recorders for both the missions were very similar except for the use of a brushless d.c. motor in the Voyager DTR. The mechanical part of the DTR consisted of fourteen rotating masses (tape reels, idlers and drive capstans) distributed in different planes and connected by three different elastic couplings (magnetic tape, peripheral belt and drive belts). ...

2 Delay jitter first-order and second-order statistical functions of general traffic on highspeed multimedia networks

Cathy A. Fulton, San-qi Li

April 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 2

Full text available: pdf(469.42 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: QBD analysis, autocorrelation function, cell delay variation, jitter, multimedia, probability density function

Accuracy in qualitative descriptions of behaviour

Tony Morgan

December 1990 Proceedings of the 22nd conference on Winter simulation

Full text available: The pdf (757.21 KB) Additional Information: full citation, references, citings, index terms

Dynamics: A practical dynamics system

Zoran Kačić-Alesić, Marcus Nordenstam, David Bullock

July 2003 Proceedings of the 2003 ACM SIGGRAPH/Eurographics Symposium on **Computer Animation** 



Full text available: pdf(3.22 MB)

Additional Information: full citation, abstract, references, index terms

We present an effective production-proven dynamics system. It uses an explicit time differencing method that is efficient, reasonably accurate, conditionally stable, and above all simple to implement. We describe issues related to integration of physically based simulation techniques into an interactive animation system, present a high level description of the architecture of the system, report on techniques that work, and provide observations that may seem obvious, but only in retrospect. Appli ...

5 Automatic netlist extraction for measurement-based characterization of off-chip interconnect



Steven D. Corey, Andrew T. Yang

January 1997 Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design

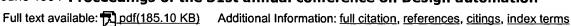
Full text available: pdf(120.35 KB) Publisher Site

Additional Information: full citation, abstract, references, index terms

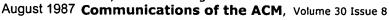
An approach is presented for modeling board level, package-level, and MCM substrate-level interconnect circuitry based an measured time domain refectometry data. The time-domain scattering parameters of a multiport system are used to extract a SPICE netlist which uses standard elements to match the behavior of the device up to a user-specified cutoff frequency. Linear or nonlinear circuits may be connected to the model ports, and the entire circuit simulated in a standard circuit simulator. Two- ...

Keywords: MCM substrate-level interconnect circuitry, SPICE netlist, automatic netlist extraction, circuit simulator, crosstalk, delay, linear circuits, measured time domain refectometry data, measurement-based characterization, microstrip circuits, multichip modules, multiport system, nonlinear circuits, off-chip interconnect, reflection transmission, time-domain scattering parameters, user-specified cutoff frequency

6 OTTER: optimal termination of transmission lines excluding radiation Rohini Gupta, Lawrence T. Pillage June 1994 Proceedings of the 31st annual conference on Design automation



7 An experimental procedure for simulation response surface model identification Lee W. Schruben, V. James Cogliano





Additional Information: full citation, abstract, references, citings, index terms, review

An experimental method for identifying an appropriate model for a simulation response surface is presented. This technique can be used for globally identifying those factors in a simulation that have a significant influence on the output. The experiments are run in the frequency domain. A simulation model is run with input factors that oscillate at different frequencies during a run. The functional form of a response surface model for the simulation is indicated by the freq ...

A hop by hop rate-based congestion control scheme

Partho P. Mishra, Hemant Kanakia

October 1992 ACM SIGCOMM Computer Communication Review, Conference proceedings on Communications architectures & protocols, Volume 22 Issue 4

Full text available:

Additional Information: full citation, abstract, references, citings, index





terms

The flow/congestion control scheme of TCP is based on the sliding window mechanism. As we demonstrate in this paper, the performance of this and other similar end-to-end flow control schemes deteriorates as networks move to the gigabit range. This has been the motivation for our search for a new flow and congestion control scheme. In this paper, we propose as an alternative, a hop-by-hop rate-based mechanism for congestion control. Due to the increasing sophistication in switch architecture ...

# System architectures for computer music

John W. Gordon

June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Full text available: pdf(4.61 MB)

Additional Information: full citation, abstract, references, index terms, review

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# 10 Some extentions and limitations of frequency domain experiments

Arnold H. Buss

December 1988 Proceedings of the 20th conference on Winter simulation

Full text available: pdf(722.62 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present three extensions of the frequency domain approach proposed by Schruben and Cogliano (1987). The first is the assignment of multiple frequencies to input factors. The frequency selection in this case is nearly identical to that of one frequency per factor. The second extension is the use of the time series of batch means to flatten the noise spectrum and make the identification of peaks in the output spectrum easier. Finally, we show that using common random numbers (as suggested ...

# 11 Agent behavior and agent models in unregulated markets

K. Smith, R. Paranjape, L. Benedicenti

September 2001 ACM SIGAPP Applied Computing Review, Volume 9 Issue 3

Full text available: pdf(936.06 KB) Additional Information: full citation, abstract, references

Mobile-agent systems show significant promise as the most effective way to harness the power of the Internet and the massive collection of information and opportunity that the Internet holds. However the efficient organization and control of these systems remains one of a number of unsolved problems with this approach to network computing. This paper examines a mobile-agent system with specific focus on environment sensing, preemptive load balancing and open agent markets. Agent behaviour is stu ...

Keywords: AR modeling, agent system modeling, environment sensing, load balancing, mobile agents

# 12 Frequency domain metamodelling of a feedback queue

Tapas K. Som, Robert G. Sargent, Lee W. Schruben

December 1987 Proceedings of the 19th conference on Winter simulation

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(526.77 KB) terms







Schruben and Cogliano [1987] introduced Frequency Domain Experiments as a tool for metamodel identification. To design a frequency domain experiment, the experimenter must choose appropriate values for certain experimental variables such as oscillation frequency, window size, and range of oscillation. In this paper, we demonstrate that these experimental variables affect the outcome of frequency domain experiments and the magnitude of these effects are model dependent.

13 Efficient full-wave electromagnetic analysis via model-order reduction of fast integral transforms



Joel R. Phillips, Eli Chiprout, David D. Ling

June 1996 Proceedings of the 33rd annual conference on Design automation

Full text available: pdf(159.24 KB) Additional Information: full citation, references, citings, index terms

14 Advanced simulation techniques: Time-domain steady-state simulation of frequencydependent components using multi-interval Chebyshev method Baolin Yang, Joel Phillips



June 2002 Proceedings of the 39th conference on Design automation

Full text available: Topdf(139.65 KB) Additional Information: full citation, abstract, references, index terms

Simulation of RF circuits often demands analysis of distributed component models that are described via frequency-dependent multi-port Y, Z, or S parameters. Frequency-domain methods such as harmonic balance are able to handle these components without difficulty, while they are more difficult for time-domain simulation methods to treat. In this paper, we propose a hybrid frequency-time approach to treat these components in steady-state timedomain simulations. Efficiency is ...

**Keywords**: RF circuit simulation, S parameter, frequency dependent

15 Session 4D: Model order reduction: A convex programming approach to positive real rational approximation



Carlos P. Coelho, Joel R. Phillips, L. Miguel Silveira

November 2001 Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design

Full text available: Ddf(451.55 KB)

Additional Information: full citation, abstract, references, citings, index terms

As system integration evolves and tighter design constraints must be met, it becomes necessary to account for the non-ideal behavior of all the elements in a system. Certain devices common in high-frequency integrated circuit applications, such as spiral inductors, SAW filters, etc, are often described and studied in the frequency domain. Models take the form of frequency domain data obtained through measurement or through physical simulation. Usually the available data is sampled, incomplete, n ...

<sup>16</sup> Noise considerations for mixed-signal RF IC transceivers Sayfe Kiaei, David Allstot, Ken Hansen, Nishath K. Verghese January 1998 Wireless Networks, Volume 4 Issue 1



Full text available: the pdf(629.05 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses design trade-offs for mixed-signal radio frequency integrated circuit (RF IC) transceivers for wireless applications in terms of noise, signal power, receiver linearity, and gain. During air wave transmission, the signal is corrupted by channel noise, adjacent interfering users, image signals, and multi-path fading. Furthermore, the receiver corrupts the incoming signal due to RF circuit non-linearity (intermodulation), electronic



device noise, and digital switching noi ...

# 17 Improved algorithms for synchronizing computer network clocks

David L. Mills

June 1995 IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 3

Full text available: pdf(1.16 MB)

Additional Information: full citation, references, citings, index terms, review

# 18 Improved algorithms for synchronizing computer network clocks

David L. Mills

October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4

Full text available: pdf(1.37 MB)

Additional Information: full citation, abstract, references, citings, index terms

The Network Time Protocol (NTP) is widely deployed in the Internet to synchronize computer clocks to each other and to international standards via telephone modem, radio and satellite. The protocols and algorithms have evolved over more than a decade to produce the present NTP Version 3 specification and implementations. Most of the estimated deployment of 100,000 NTP servers and clients enjoy synchronization to within a few tens of milliseconds in the Internet of today. This pape ...

## 19 Tools and methodology for RF IC design

Al Dunlop, Alper Demir, Peter Feldmann, Sharad Kapur, David Long, Robert Melville, Jaijeet Roychowdhury

May 1998 Proceedings of the 35th annual conference on Design automation - Volume

Full text available: pdf(326.34 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe powerful new techniques for the analysis of RF circuits. Next-generation CAD tools based on such techniques should enable RF designers to obtain a more accurate picture of how their circuits will operate. These new simulation capabilities will be essential in order to reduce the number of design iterations needed to produce complex RFICs.

**Keywords**: custom sizing, migration, timing optimazation

20 Session 19: biomedical applications: Factors controlling generation and propagation of pacemaker potentials in network models of mammalian SA node

Raimond L. Winslow, Dongming Cai, Ying Cheng Lai

November 1994 Proceedings of the 1994 ACM/IEEE conference on Supercomputing

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references

Large-scale, biophysically detailed network models of the SA node and atrium are developed on the CM-5 parallel supercomputer. The models are used to investigate three factors controlling the site of generation and propagation of the cardiac pacemaker potential: a) magnitude of cell-to-cell gap junction coupling in the SA node; b) spatial variation of membrane current density in SA node; and c) interdigitation of SA node and atrial tissue.

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1 A hop by hop rate-based congestion control scheme

Partho P. Mishra, Hemant Kanakia

October 1992 ACM SIGCOMM Computer Communication Review, Conference proceedings on Communications architectures & protocols, Volume 22 Issue 4

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index terms

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Metaheuristics in combinatorial optimization: Overview and conceptual comparison Christian Blum, Andrea Roli

September 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 3

Full text available: T pdf(431.84 KB)

Additional Information: full citation, abstract, references, index terms

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

Exploiting Resonant Behavior to Reduce Inductive Noise

June 2004 Proceedings of the 31st annual international symposium on Computer architecture - Volume 00

Full text available:

pdf(190.42 KB) Publisher Site

Additional Information: full citation, abstract

Inductive noise in high-performance microprocessors is a reliabilityissue caused by variations in processor current (di/dt)which are converted to supply-voltage glitches by impedances inthe power-supply network. Inductive noise has been addressed by using decoupling capacitors to





maintain low impedance in the power supply over a wide range of frequencies. However, evenwell-designed power supplies exhibit (a few) peaks of high impedanceat resonant frequencies caused by RLC resonant loops. Previousa ...

## 4 Digital control of industrial processes

Cecil L. Smith

September 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 3

Full text available: pdf(2.11 MB)

Additional Information: full citation, references, citings, index terms

## 5 RF design methodology: NSGA-based parasitic-aware optimization of a 5GHz low-noise VCO

Min Chu, David J. Allstot, Jeffrey M. Huard, Kim Y. Wong

January 2004 Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair 2004

Full text available: pdf(231.75 KB) Additional Information: full citation, abstract, references

A parasitic-aware RF synthesis tool based on a non-dominated sorting genetic algorithm (NSGA) is introduced. The NSGA-based optimizer casts the design problem as a mulit-objective optimization problem and offers multiple solutions along the Pareto optimal front. Monte-Carlo simulations are then performed to efficiently assess sensitivity at solution points with respect to process, voltage, and temperature (PVT) variations. An example design of a 10mW 5GHz voltage-controlled oscillator (VCO) in 2 ...

## 6 Razor: A Low-Power Pipeline Based on Circuit-Level Timing Speculation

Dan Ernst, Nam Sung Kim, Shidhartha Das, Sanjay Pant, Rajeev Rao, Toan Pham, Conrad Ziesler, David Blaauw, Todd Austin, Krisztian Flautner, Trevor Mudge

December 2003 Proceedings of the 36th Annual IEEE/ACM International Symposium on **Microarchitecture** 

Full text available: pdf(568.17 KB) Additional Information: full citation, abstract, citings, index terms Publisher Site

With increasing clock frequencies and silicon integration, power aware computing has become a critical concernin the design of embedded processors and systems-on-chip. One of the more effective and widely used methods for power-awarecomputing is dynamic voltage scaling (DVS). In orderto obtain the maximum power savings from DVS, it is essential to scale the supply voltage as low as possible while ensuring correct operation of the processor. The critical voltage ischosen such that under a worst-case ...

## 7 Design and evaluation of a conit-based continuous consistency model for replicated services

Haifeng Yu, Amin Vahdat

August 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 3

Full text available: pdf(406.85 KB) Additional Information: full citation, abstract, references, citings, index terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the semantic space between traditional strong and optimistic consistency models for replicated services. We argue that an important class of applications can tolerate relaxed consistency, but benefit from bounding the maximum rate of inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

Programming languages for computer music synthesis, performance, and composition Gareth Loy, Curtis Abbott

June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Full text available: pdf(3.57 MB)

Additional Information: full citation, abstract, references, citings, index terms

The development of formal, descriptive, and procedural notations has become a practical concern within the field of music now that computers are being applied to musical tasks. Music combines the real-time demands of performance with the intellectual demands of highly developed symbolic systems that are quite different from natural language. The richness and variety of these demands makes the programming language paradigm a natural one in the musical application of computers. This paradigm ...

Analysis, modeling and generation of self-similar VBR video traffic

Mark W. Garrett, Walter Willinger

October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4

Full text available: pdf(1.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a detailed statistical analysis of a 2-hour long empirical sample of VBR video. The sample was obtained by applying a simple intraframe video compression code to an action movie. The main findings of our analysis are (1) the tail behavior of the marginal bandwidth distribution can be accurately described using "heavy-tailed" distributions (e.g., Pareto); (2) the autocorrelation of the VBR video sequence decays hyperbolically (equivalent to long-range dependenc ...

10 Physical layer driven protocol and algorithm design for energy-efficient wireless sensor networks

Eugene Shih, Seong-Hwan Cho, Nathan Ickes, Rex Min, Amit Sinha, Alice Wang, Anantha Chandrakasan

July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking

Full text available: pdf(782.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

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11 Fast and accurate text classification via multiple linear discriminant projections

Soumen Chakrabarti, Shourya Roy, Mahesh V. Soundalgekar

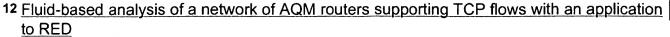
August 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 2

Full text available: pdf(456.36 KB) Additional Information: full citation, abstract, index terms

Abstract. Support vector machines (SVMs) have shown superb performance for text classification tasks. They are accurate, robust, and quick to apply to test instances. Their only potential drawback is their training time and memory requirement. For *n* training instances held in memory, the best-known SVM implementations take time proportional to n a, where a is typically between 1.8 and 2.1. SVMs have been trained on data sets with several thousand instances, but Web direct ...

Keywords: Discriminative learning, Linear discriminants, Text classification





Vishal Misra, Wei-Bo Gong, Don Towsley

August 2000 ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication, Volume 30 Issue 4

Full text available: pdf(604.55 KB)

Additional Information: full citation, abstract, references, citings, index terms

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## 13 SEDA: an architecture for well-conditioned, scalable internet services

Matt Welsh, David Culler, Eric Brewer

October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: R pdf(1.51 MB)

Additional Information: full citation, abstract, references, citings, index terms

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# 14 Vibration-to-electric energy conversion

Scott Meninger, Jose Oscar Mur-Miranda, Rajeevan Amirtharajah, Anantha Chandrakasan, Jeffrey

August 1999 Proceedings of the 1999 international symposium on Low power electronics and design

Full text available: pdf(952.15 KB)

Additional Information: full citation, references, index terms

Keywords: MEMS, energy conversion, low-power, self-powered

# 15 Emerging design and tool challenges in RF and wireless applications: 4G terminals: how are we going to design them?

Jan Craninckx, Stéphane Donnay

June 2003 Proceedings of the 40th conference on Design automation

Full text available: pdf(1.83 MB)

Additional Information: full citation, abstract, references, index terms

Fourth-generation wireless communication systems (4G) will have totally different requirements than what front-end designers have been coping with up to now. Designs must be targeted to multi-mode and reconfigurability, leading to the concept of a "software-defined radio". A large part of such a radio will be integrated into a complex SoC, where the substrate noise coupling problem must be solved. However, for an optimal implementation of the complete system, including e.g. PA, RF filters and ant ...

Keywords: 4th generation, radio front-end, telecommunication, wireless systems



Michail G. Lagoudakis, Ronald Parr

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(991.82 KB)

Additional Information: full citation, abstract, index terms

We propose a new approach to reinforcement learning for control problems which combines value-function approximation with linear architectures and approximate policy iteration. This new approach is motivated by the least-squares temporal-difference learning algorithm (LSTD) for prediction problems, which is known for its efficient use of sample experiences compared to pure temporal-difference algorithms. Heretofore, LSTD has not had a straightforward application to control problems mainly becaus ...

## 17 Experiments with digital video playback

Richard Gerber, Ladan Gharai

May 1996 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 24 Issue 1

Full text available: 📆 pdf(1.25 MB)

Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages. In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: compression type, frame size, digitized rate, spatial quality and keyframe distribution. The tests were carried out ...

# 18 RF design methodology: Analysis of MOS cross-coupled *LC*-tank oscillators using short-channel device equations

Makram M. Mansour, Mohammad M. Mansour, Amit Mehrotra

January 2004 Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair 2004

Full text available: pdf(209.94 KB)

Additional Information: full citation, abstract, references

New analytical techniques for estimating the large-signal periodic steady-state solution of MOS LC-tank oscillators using short-channel device equations are presented. These techniques allow us to make quantitative estimates of the oscillator steady-state performance without the need for time-consuming transient simulations using simulators such as SPICE. Further, our engineering techniques provide insight and quantitative understanding on the design of current-day, deep-submicron MOS LC-tank os ...

19 A computational steering system for studying microwave interactions with missile bodies
J. Edward Swan, Marco Lanzagorta, Doug Maxwell, Eddy Kuo, Jeff Uhlmann, Wendell Anderson, Haw-Jye Shyu, William Smith

October 2000 Proceedings of the conference on Visualization '00

Full text available: pdf(612.05 KB)

Additional Information: full citation, index terms

**Keywords**: computational steering, inverse steering, modeling and simulation, scientific visualization, virtual reality

# <sup>20</sup> System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES),



Volume 5 Issue 2

Full text available: pdf(385.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

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Relevance scale

Metaheuristics in combinatorial optimization: Overview and conceptual comparison Christian Blum, Andrea Roli

September 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 3

Additional Information: full citation, abstract, references, index terms Full text available: pdf(431.84 KB)

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

2 Digital control of industrial processes

Cecil L. Smith

September 1970 ACM Computing Surveys (CSUR), Volume 2 Issue 3

Full text available: T pdf(2.11 MB)

Additional Information: full citation, references, citings, index terms

<u>Programming languages for computer music synthesis, performance, and composition</u> Gareth Loy, Curtis Abbott

June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Full text available: pdf(3.57 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

The development of formal, descriptive, and procedural notations has become a practical concern within the field of music now that computers are being applied to musical tasks. Music combines the real-time demands of performance with the intellectual demands of highly developed symbolic systems that are quite different from natural language. The richness and variety of these demands makes the programming language paradigm a natural one in the musical application of computers. This paradigm ...





4 Design and evaluation of a conit-based continuous consistency model for replicated services



Haifeng Yu, Amin Vahdat

August 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 3

Full text available: pdf(406.85 KB)

Additional Information: full citation, abstract, references, citings, index terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency quarantees or none at all. This paper explores the semantic space between traditional strong and optimistic consistency models for replicated services. We argue that an important class of applications can tolerate relaxed consistency, but benefit from bounding the maximum rate of inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

<sup>5</sup> Razor: A Low-Power Pipeline Based on Circuit-Level Timing Speculation Dan Ernst, Nam Sung Kim, Shidhartha Das, Sanjay Pant, Rajeev Rao, Toan Pham, Conrad Ziesler, David Blaauw, Todd Austin, Krisztian Flautner, Trevor Mudge December 2003 Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture



Additional Information: full citation, abstract, citings, index terms

With increasing clock frequencies and silicon integration, power aware computing has become a critical concernin the design of embedded processors and systems-on-chip. One of the more effective and widely used methods for power-awarecomputing is dynamic voltage scaling (DVS). In orderto obtain the maximum power savings from DVS, it is essentialto scale the supply voltage as low as possible while ensuring correct operation of the processor. The critical voltage ischosen such that under a worst-case ...

<sup>6</sup> Analysis, modeling and generation of self-similar VBR video traffic

Mark W. Garrett, Walter Willinger

October 1994 ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4

Full text available: 🔁 pdf(1.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a detailed statistical analysis of a 2-hour long empirical sample of VBR video. The sample was obtained by applying a simple intraframe video compression code to an action movie. The main findings of our analysis are (1) the tail behavior of the marginal bandwidth distribution can be accurately described using "heavy-tailed" distributions (e.g., Pareto); (2) the autocorrelation of the VBR video sequence decays hyperbolically (equivalent to long-range dependenc ...

7 Physical layer driven protocol and algorithm design for energy-efficient wireless sensor networks



Eugene Shih, Seong-Hwan Cho, Nathan Ickes, Rex Min, Amit Sinha, Alice Wang, Anantha Chandrakasan

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8 Fluid-based analysis of a network of AQM routers supporting TCP flows with an application to RED

Vishal Misra, Wei-Bo Gong, Don Towsley

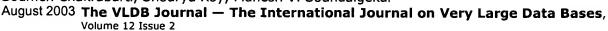
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Additional Information: full citation, abstract, references, citings, index terms

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10 SEDA: an architecture for well-conditioned, scalable internet services Matt Welsh, David Culler, Eric Brewer

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Scott Meninger, Jose Oscar Mur-Miranda, Rajeevan Amirtharajah, Anantha Chandrakasan, Jeffrey Lang

August 1999 Proceedings of the 1999 international symposium on Low power

## electronics and design

Full text available: pdf(952.15 KB) Additional Information: full citation, references, index terms

**Keywords**: MEMS, energy conversion, low-power, self-powered

## 12 Least-squares policy iteration

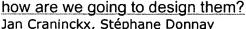
Michail G. Lagoudakis, Ronald Parr

December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(991.82 KB) Additional Information: full citation, abstract, index terms

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April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2

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## 15 System architectures for computer music

John W. Gordon

June 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 2

Additional Information: full citation, abstract, references, index terms, Full text available: pdf(4.61 MB) review

Computer music is a relatively new field. While a large proportion of the public is aware of



computer music in one form or another, there seems to be a need for a better understanding of its capabilities and limitations in terms of synthesis, performance, and recording hardware. This article addresses that need by surveying and discussing the architecture of existing computer music systems. System requirements vary according to what the system will be used for. Common uses for co ...

16 Broadcast protocols to support efficient retrieval from databases by mobile users Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar March 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 1

Full text available: pdf(638.48 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important problem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

<sup>17</sup> A hop by hop rate-based congestion control scheme

Partho P. Mishra, Hemant Kanakia

October 1992 ACM SIGCOMM Computer Communication Review, Conference proceedings on Communications architectures & protocols, Volume 22 Issue 4

Full text available: pdf(1.12 MB)

Additional Information: full citation, abstract, references, citings, index terms

The flow/congestion control scheme of TCP is based on the sliding window mechanism. As we demonstrate in this paper, the performance of this and other similar end-to-end flow control schemes deteriorates as networks move to the gigabit range. This has been the motivation for our search for a new flow and congestion control scheme. In this paper, we propose as an alternative, a hop-by-hop rate-based mechanism for congestion control. Due to the increasing sophistication in switch architecture ...

18 Formal models-2: Tuning before feedback: combining ranking discovery and blind feedback for robust retrieval

Weiguo Fan, Ming Luo, Li Wang, Wensi Xi, Edward A. Fox

July 2004 Proceedings of the 27th annual international conference on Research and development in information retrieval

Full text available: 📆 pdf(306.72 KB) Additional Information: full citation, abstract, references, index terms

Both ranking functions and user queries are very important factors affecting a search engine's performance. Prior research has looked at how to improve ad-hoc retrieval performance for existing queries while tuning the ranking function, or modify and expand user queries using a fixed ranking scheme using blind feedback. However, almost no research has looked at how to combine ranking function tuning and blind feedback together to improve ad-hoc retrieval performance. In this paper, we look at th ...

Keywords: blind feedback, genetic programming, information retrieval, intelligent information retrieval, query expansion, ranking function, search engine

19 Experiments with digital video playback Richard Gerber, Ladan Gharai





## May 1996 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1996 **ACM SIGMETRICS international conference on Measurement and modeling** of computer systems, Volume 24 Issue 1

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on the static and dynamic tradeoffs involved in video playback. Our results were extracted from a controlled series of 272 tests, which we ran in three stages. In the first stage of 120 tests, we used a simple player-monitor tool to evaluate the effects of various static parameters: compression type, frame size, digitized rate, spatial quality and keyframe distribution. The tests were carried out ...

# <sup>20</sup> Data partitioning and load balancing in parallel disk systems

Peter Scheuermann, Gerhard Weikum, Peter Zabback

February 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 1

Full text available: 📆 pdf(310.27 KB) Additional Information: full citation, abstract, index terms

Parallel disk systems provide opportunities for exploiting I/O parallelism in two possible ways, namely via inter-request and intra-request parallelism. In this paper, we discuss the main issues in performance tuning of such systems, namely striping and load balancing, and show their relationship to response time and throughput. We outline the main components of an intelligent, self-reliant file system that aims to optimize striping by taking into account the requirements of the applications, an ...

**Keywords**: Data allocation, Disk cooling, File striping, Load balancing, Parallel disk systems, Performance tuning

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